CLAIMS

What is claimed is:

- In a computing device, a method of adding to a directory
 information tree comprising the steps of:
 - a) accessing a template name;
 - b) reading a template according to said accessed template name, said template comprising structural information of said directory information tree;
 - c) receiving a first set of attributes from an application program, said received first set of attributes not including a location within said directory information tree;
 - d) constructing an entry comprising: i) said received first set of attributes; and ii) a destination location within said directory information, said destination location generated using said structural information; and
 - e) adding said constructed entry to said directory information tree at said destination location.
 - 2. A method as described in Claim 1 wherein said template further comprises a second set of attributes, said second set comprising default values for inclusion in said constructed entry.

- 3. A method as described in Claim 1 wherein said template further comprises a third set of attributes, said third set comprising attributes that are required to have assigned values.
- 4. A method as described in Claim 1 wherein said template further comprises information specifying a verification program for verifying one or more attributes of said first set of attributes.
 - 5. A method as described in Claim 1 wherein said template further comprises:
 - i) a second set of attributes, said second set comprising default values for inclusion in said constructed entry;
 - ii) a third set of attributes, said third set comprising attributes that are required to have assigned values; and
 - iii) information specifying a program for verifying one or more attributes of said first set of attributes.
 - 6. A method as described in Claim 5 wherein said template is an XML file.

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7. A method as described in Claim 1 further comprising the step of detecting the condition of said constructed element being unacceptable for addition to said directory information tree.

- 8. A method as described in Claim 1 wherein said template is an XML file.
- 9. A method as described in Claim 1 wherein said directory information tree is an LDAP directory.
 - 10. In a computing device, a method of adding an entry to directory information tree comprising the steps of:
 - a) passing a template name to an application program interface, said named template comprising structural information of said directory information tree; and
 - b) passing information for said entry to said application program interface, said passed information not including a location for said entry within said directory information tree.
 - 11. A method as described in Claim 10 wherein said template is an XML file.
- 20 12. A method as described in Claim 10 wherein said directory information tree is an LDAP directory.

- 13. In a computing device, a method of searching a directory information tree comprising the steps of:
 - a) accessing a template name;
- b) reading a template according to said accessed template name, saidtemplate comprising:
 - i) structural information of said directory information tree; and
 - ii) a first set of attributes;
 - c) accessing a second set of attributes from an application program, said accessed second set not included in said first set;
 - d) constructing a query object comprising:
 - i) said first set of attributes;
 - ii) said second set of attributes;
 - e) performing a query operation using said query object.
 - 14. A method as described in Claim 13 wherein said template further comprises information specifying a program for verifying one or more attributes in said second set of attributes.
- 15. A method as described in Claim 13 wherein said template is an20 XML file.
 - 16. A method as described in Claim 13 wherein said directory information tree is an LDAP directory.

- 17. A computer readable medium having instructions stores therein for implementing a program module that directs the addition of an entry to a directory information tree, to function in a specified manner, said instructions for:
 - a) accessing a template name;
- b) reading a template according to said received template name, said template comprising structural information of said directory information tree;
- c) receiving a first set of attributes from an application program, said received first set of attributes not including a location within said directory information tree;
 - d) constructing an entry comprising:
 - i) said received first set of attributes; and
- ii) a destination location within said directory information, said destination location generated using said structural information; and
- e) adding said constructed entry to said directory information tree at said destination location.
- 18. A computer readable medium as described in Claim 17 wherein said template further comprises a second set of attributes, said second set comprising default values for inclusion in said constructed entry.

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- 19. A computer readable medium as described in Claim 17 wherein said template further comprises a third set of attributes, said third set comprising attributes which are required to have assigned values.
- 20. A computer readable medium as described in Claim 17 wherein said template further comprises information specifying a verification program for verifying one or more attributes of said first set of attributes.
 - 21. A computer readable medium as described in Claim 17 wherein said template further comprises:
 - i) a second set of attributes, said second set comprising default values for inclusion in said constructed entry;
 - ii) a third set of attributes, said third set comprising attributes that are required to have assigned values; and
 - iii) information specifying a program for verifying one or more attributes of said first set of attributes.
 - 22. A computer readable medium as described in Claim 21 wherein said template is an XML file.
 - 23. A computer readable medium as described in Claim 17 further comprising the step of detecting the condition of said constructed entry being unacceptable for addition to said directory information tree.

- 24. A computer readable medium as described in Claim 17 wherein said template is an XML file.
- 5 25. A computer readable medium as described in Claim 17 wherein said directory information tree is an LDAP directory.
 - 26. A computer readable medium having computer program instructions stored therein for implementing a program module that directs the addition of an entry to a directory information tree, to function in a specified manner, the program module comprising instructions for:
 - a) passing a template name to an application program interface, said named template comprising structural information of said directory information tree; and
 - b) passing information included for said entry to said application program interface, said passed information not including location for said entry within said directory information tree.
- 27. A computer readable medium as described in Claim 26 wherein 20 said template is an XML file.
 - 28. A computer readable medium as described in Claim 26 wherein said directory information tree is an LDAP directory.

- 29. In a computing device, a method of adding an entry to a directory information tree comprising the steps of:
- A) passing a template name to an application program interface, said named template comprising structural information of said directory information tree;
 - B) receiving said template name;
 - C) reading a template according to said received template name, said template comprising:
 - i) structural information of said directory information tree;
 - ii) a second set of attributes, said second set comprising default attribute values;
 - iii) a third set of attributes, said third set comprising attributes that are required to have assigned values; and
 - iv) information specifying a verification program;
 - D) passing a first set of attributes to said application program interface, said passed first set of attributes not including a location for said entry within said directory information tree;
 - E) receiving said first set of attributes;
- F) verifying of one or more attributes of said first set of attributes using said verification program;
 - G) constructing said entry comprising:
 - i) said received first set of attributes;
 - ii) said second set of attributes; and

- iii) a destination location within said directory information, said destination location generated using said structural information;
- H) detecting the condition of said constructed entry being unacceptable for addition to said directory information tree; at least one said condition being the absence of a value for any attribute in said third set of attributes;
- I) if said constructed entry is unacceptable, generating an error condition; and
- J) adding said constructed entry to said directory information tree at said destination location.